



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT15D-5, -5A, -5B BYPASS RATIO: 2.1
 UNIQUE ID NUMBER: 1PW037 PRESSURE RATIO (π_{00}): 12.3
 COMBUSTOR: RATED THRUST (F_{00}) (kN): 12.9
 ENGINE TYPE: TF

REGULATORY DATA

| CHARACTERISTIC VALUE: | HC | CO | NO _x | SMOKE NUMBER |
|--|-------|-------|-----------------|--------------|
| D _p /F ₀₀ (g/kN) or SN | 738.9 | 584.4 | 43.2 | 24.1 |
| AS % OF ORIGINAL LIMIT | | | | |
| AS % OF CAEP/2 LIMIT (NO _x) | | | | |
| AS % OF CAEP/4 LIMIT (NO _x) | | | | |
| AS % OF CAEP/6 LIMIT (NO _x) | | | | |
| AS % OF CAEP/8 LIMIT (NO _x) | | | | |

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
 x DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

| MODE | POWER SETTING (%F ₀₀) | TIME (minutes) | FUEL FLOW (kg/s) | EMISSIONS INDICES (g/kg) | | | SMOKE NUMBER |
|--|-----------------------------------|----------------|------------------|--------------------------|--------|-----------------|--------------|
| | | | | HC | CO | NO _x | |
| TAKE-OFF | 100 | 0.7 | 0.205 | 0.00 | 0.00 | 11.13 | 18.5 |
| CLIMB OUT | 85 | 2.2 | 0.173 | 1.30 | 1.15 | 10.08 | |
| APPROACH | 30 | 4.0 | 0.066 | 11.70 | 38.60 | 4.93 | |
| IDLE | 7 | 26.0 | 0.030 | 119.10 | 119.20 | 1.66 | |
| LTO TOTAL FUEL (kg) or EMISSIONS (g) | | | 93 | 5715 | 6142 | 481 | - |
| NUMBER OF ENGINES | | | | 1 | 1 | 1 | 1 |
| NUMBER OF TESTS | | | | 1 | 1 | 1 | 1 |
| AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX) | | | | 479.8 | 476.1 | 37.3 | 18.5 |
| SIGMA (D _p /F ₀₀ in g/kN, or SN) | | | | | | | |
| RANGE (D _p /F ₀₀ in g/kN, or SN) | | | | | | | |

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

| | |
|----------------------|--------|
| BAROMETER (kPa) | 99.4 |
| TEMPERATURE (K) | 280.3 |
| ABS HUMIDITY (kg/kg) | 0.0036 |

FUEL

| | |
|----------|---------|
| SPEC | Jet A-1 |
| H/C | 1.85 |
| AROM (%) | |

MANUFACTURER: Pratt & Whitney Canada
 TEST ORGANIZATION: Pratt & Whitney Canada
 TEST LOCATION: Longueuil, Quebec
 TEST DATES: 16/04/1993-22/04/1993

REMARKS

1. Not required to meet GASEOUS emissions regulations.

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)